L Number	Hits	Search Text	DB	Time stamp
1	2666	("514/183,185,501").CCLS	USPAT	2004/04/12 08:27
2	268	("544/88").CCLS	USPAT	2004/04/12 08:27
3	271	("548/300.1").CCLS	USPAT	2004/04/12 08:27
5	3	(("514/183,185,501").CCLS) and (("544/88").CCLS) and (("548/300.1").CCLS)	USPAT	2004/04/12 08:28

Welcome to STN International! Enter x:x

LOGINID:ssspta1611sxp

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	NOV 24	MSDS-CCOHS file reloaded
NEWS 4	DEC 08	CABA reloaded with left truncation
NEWS 5	DEC 08	IMS file names changed
NEWS 6	DEC 17	DGENE: Two new display fields added
NEWS 7	DEC 18	BIOTECHNO no longer updated
NEWS 8	DEC 19	CROPU no longer updated; subscriber discount no longer available
NEWS 9	DEC 22	ABI-INFORM now available on STN
NEWS 10	JAN 27	Source of Registration (SR) information in REGISTRY updated and searchable
NEWS 11	JAN 27	A new search aid, the Company Name Thesaurus, available in CA/CAplus
NEWS 12	FEB 05	German (DE) application and patent publication number format changes
NEWS 13	MAR 03	MEDLINE and LMEDLINE reloaded
NEWS 14	MAR 03	MEDLINE file segment of TOXCENTER reloaded
NEWS 15	MAR 03	FRANCEPAT now available on STN
NEWS 16	MAR 29	Pharmaceutical Substances (PS) now available on STN
NEWS 17	MAR 29	WPIFV now available on STN
NEWS 18	MAR 29	No connect hour charges in WPIFV until May 1, 2004
NEWS 19	MAR 29	New monthly current-awareness alert (SDI) frequency in RAPRA

NEWS EXPRESS	MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 3 MARCH 2004
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

```
FILE 'HOME' ENTERED AT 09:01:40 ON 12 APR 2004

=> fdile reg
FDILE IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=>
Uploading
THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE
Do you want to switch to the Registry File?
Choice (Y/n):
Some commands only work in certain files.  For example, the EXPAND
command can only be used to look at the index in a file which has an
index.  Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of
commands which can be used in this file.

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.21       0.21

FILE 'REGISTRY' ENTERED AT 09:02:11 ON 12 APR 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:     9 APR 2004  HIGHEST RN 673855-15-7
DICTIONARY FILE UPDATES:    9 APR 2004  HIGHEST RN 673855-15-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading c:\program files\stnexp\queries\09828499.2

L1      STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1              STR
```

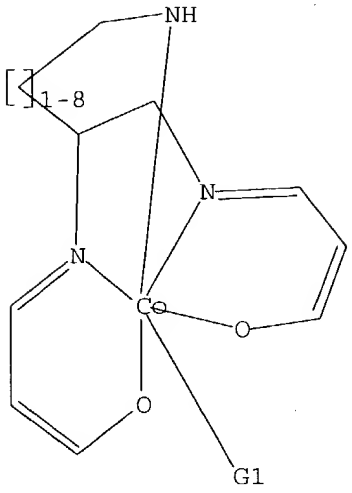

G1 NH,N,Hy

Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss full
FULL SEARCH INITIATED 09:02:34 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 2551 TO ITERATE

100.0% PROCESSED 2551 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L2 0 SEA SSS FUL L1

=> file marpat

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	155.42	155.63

FILE 'MARPAT' ENTERED AT 09:02:42 ON 12 APR 2004
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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE CONTENT: 1988-PRESENT (VOL 140 ISS 15)(20040409ED)

MOST RECENT CITATIONS FOR PATENTS FROM FIVE MAJOR ISSUING AGENCIES
(COVERAGE TO THESE DATES IS NOT COMPLETE):

US 6706759 16 MAR 2004
DE 10335606 11 MAR 2004
EP 1394228 03 MAR 2004
JP 2004075668 11 MAR 2004
WO 2004020602 11 MAR 2004

Structure search limits have been raised. See HELP SLIMIT for the new, higher limits.

```
=> s l1 sss full
FULL SEARCH INITIATED 09:02:48 FILE 'MARPAT'
FULL SCREEN SEARCH COMPLETED -    375 TO ITERATE

100.0% PROCESSED     375 ITERATIONS                          0 ANSWERS
SEARCH TIME: 00.00.03

L3             0 SEA SSS FUL L1

=> file caold
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                              109.42     265.05

FILE 'CAOLD' ENTERED AT 09:02:56 ON 12 APR 2004
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FILE COVERS 1907-1966
FILE LAST UPDATED:  01 May 1997 (19970501/UP)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.  Title keywords, authors, patent
  assignees, and patent information, e.g., patent numbers, are
  now searchable from 1907-1966.  TIFF images of CA abstracts
  printed between 1907-1966 are available in the PAGE
  display formats.

  This file supports REGlstRY for direct browsing and searching of
  all substance data from the REGISTRY file.  Enter HELP FIRST for
  more information.

=> s l1 sss full
   REGlstRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.




FULL SEARCH INITIATED 09:03:02 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    2551 TO ITERATE

100.0% PROCESSED    2551 ITERATIONS                          0 ANSWERS
SEARCH TIME: 00.00.01

L4             0 SEA SSS FUL L1



L5             0 L4

=> file caplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                                0.42     421.31
```

FILE 'CAPLUS' ENTERED AT 09:03:13 ON 12 APR 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 12 Apr 2004 VOL 140 ISS 16
FILE LAST UPDATED: 11 Apr 2004 (20040411/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s cobalt and schiff's bases
MISMATCHED QUOTE 'SCHIFF'S'
Quotation marks (or apostrophes) must be used in pairs, one before and one after the expression you are setting off or masking.

=> end
ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF
LOGOFF? (Y)/N/HOLD:end

=> s Cobalt and schiff's
MISMATCHED QUOTE 'SCHIFF'S'
Quotation marks (or apostrophes) must be used in pairs, one before and one after the expression you are setting off or masking.

=> end
ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF
LOGOFF? (Y)/N/HOLD:end

=> end
ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF
LOGOFF? (Y)/N/HOLD:n

=> end
ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF
LOGOFF? (Y)/N/HOLD:n

=> s Cobalt and schiff bases
L6 1456 COBALT AND SCHIFF BASES

=> s l6 and imidazole
L7 17 L6 AND IMIDAZOLE

=> s l6 and diamine
L8 119 L6 AND DIAMINE

=> s l7 and l8
L9 3 L7 AND L8

=> d l9 fbib hitstr abs total

L9 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:445272 CAPLUS
DN 139:344746
TI Synthesis and characterization of axial coordination **cobalt**(III) complexes containing chiral Salen ligands
AU Zhang, Yu-Ling; Ruan, Wen-Juan; Zhao, Xiao-Jing; Wang, Hong-Gen; Zhu, Zhi-Ang
CS Department of Chemistry, Nankai University, Tianjin, 300071, Peop. Rep. China
SO Polyhedron (2003), 22(12), 1535-1545
CODEN: PLYHDE; ISSN: 0277-5387
PB Elsevier Science Ltd.
DT Journal
LA English
AB **Cobalt**(III) complexes, [Co(SB)L2]ClO4, containing both optically active tetradentate Schiff base ligands from R,R-cyclohexane-1,2-**diamine** and salicylaldehyde, 5-methoxysalicylaldehyde and 3,5-di-tert-butylsalicylaldehyde, (SB = Salen, MeOSalen, t-Bu-Salen, resp.) with axial ligands (L = **imidazole** (Im), 2-methylimidazole (2-MeIm), 1-methylimidazole (MeIm)) were prepared and characterized. The crystal structures of [Co(Salen)(MeIm)2]ClO4 (1c), [Co(MeOSalen)(MeIm)2]ClO4 (2c), and [Co(t-Bu-Salen)(MeIm)2]ClO4 (3c) were determined by x-ray structure anal. The properties of these hexacoordinate complexes, such as electronic absorption, CD spectra, and 1H NMR spectra, were studied.
RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1999:92310 CAPLUS
TI An improved **cobalt**(III) Schiff base system for enzyme inhibition
AU Dunnick, Alejandro L.; Baker, Tracy; Yang, Charles; Goodman, Murray; Gray, Harry B.; Meade, Thomas J.
CS Division of Biology and the Beckman Institute, California Institute of Technology, Pasadena, CA, 91125, USA
SO Book of Abstracts, 217th ACS National Meeting, Anaheim, Calif., March 21-25 (1999), INOR-493 Publisher: American Chemical Society, Washington, D. C.
CODEN: 67GHA6
DT Conference; Meeting Abstract
LA English
AB **Cobalt**(III) **Schiff bases** [Co(acacen)L2]+ (acacen = bis-acetylacetonate ethylene diimine, L = Me **imidazole**) have been shown to inhibit the replication of the herpes virus. A possible mechnisim for this observed inhibition involves the inactivation of an enzyme by irreversible binding of the **cobalt** complex to histidine residues. We have been investigating the role of these complexes in the inhibition of several model enzymes including thrombin, thermolysin and carbonic anhydrase. It is the primary goal of this work to increase inhibitor specificity by attaching short peptides that are

known to have a high affininity for target enzymes. We present the syntheses of these **cobalt**(III) complexes in which functionalized 1, 2 **diamines** are incorporated into the Schiff base backbone.

L9 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1996:580673 CAPLUS
DN 125:291571
TI Stereochemistry and electrochemistry of **cobalt**(II) and **cobalt**(III) complexes containing optically active tetradentate Schiff base ligands
AU Hirotsu, Masakazu; Kojima, Masaaki; Nakajima, Kiyohiko; Kashino, Setsuo; Yoshikawa, Yuzo
CS Faculty Science, Okayama University, Okayama, 700, Japan
SO Bulletin of the Chemical Society of Japan (1996), 69(9), 2549-2557
CODEN: BCSJA8; ISSN: 0009-2673
PB Nippon Kagakkai
DT Journal
LA English
AB **Cobalt**(II) complexes containing tetradentate Schiff base ligands with Ph substituents, [Co(Schiff base)], were prepared and the electrochem. properties are reported. The crystal structure of [Co{7-Phsal-(rac)-stien}], where the Schiff base ligand was derived from 2-hydroxybenzophenone and (rac)-1,2-diphenylethylenediamine, was determined by x-ray structure anal. Crystal data: monoclinic, space group P21/n, a 13.956(2), b 14.703(2), c = 17.808(3) Å, β = 112.21(1)°, Z = 4, and R = 0.052 and Rw = 0.039 for 3976 unique reflections with I > 3σ(I). The two Ph groups in the N-N chelate moiety are in the axial positions and block the apical sites. In this complex, the redox potential of the Co(III)/Co(II) couple is 0.20 V vs. Ag/Ag+ in acetonitrile and becomes more pos. by .apprx.300 mV than that for [Co(salen)]. This large pos. shift is attributed to the steric effect of the two axially disposed Ph groups. The redox potentials of the analogous **cobalt**(II) Schiff base complexes, where (meso)-1,2-diphenylethylenediamine and (R)-1-phenylethylenediamine were used as a **diamine**, are also explained in terms of the steric effect of the Ph substituents. The corresponding **cobalt**(III) Schiff base complexes with two addnl. axial ligands, [Co(Schiff base)(L)2]ClO4 (L = **imidazole** (Im), 1-methylimidazole (Meim)), were prepared The steric interaction between the Ph groups on the N-N chelate moiety and the axial ligands is discussed based on the x-ray structure, the CD spectra, and the 1H NMR spectra. The crystal structure determination of [Co{sal-(meso)-stien}(Meim)2]ClO4, where the Schiff base ligand was derived from salicylaldehyde and (meso)-1,2-diphenylethylenediamine, was performed. Crystal data: monocline, space group P21/c, a 10.789(2), b 20.512(3), c 15.330(2) Å, β 99.88(1)°, Z = 4, and R = 0.051 and Rw = 0.049 for 3414 unique reflections with I > 3σ(I). To study the steric effect of the Ph substituents, the [Co(Schiff base)(L)2]ClO4 complexes were prepared using (R)-1,2-propanediamine as a **diamine**. The different behavior shows that the interaction between the Ph groups is sensitive to the orientation.

=> log y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	19.33	440.64

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL